1-16 pgs

BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements To Road, Drain And Footpath In Kannuramma Main Road And Abutting Cross Roads In Ward No.8, Kodigehalli

(3)

008-17-000039

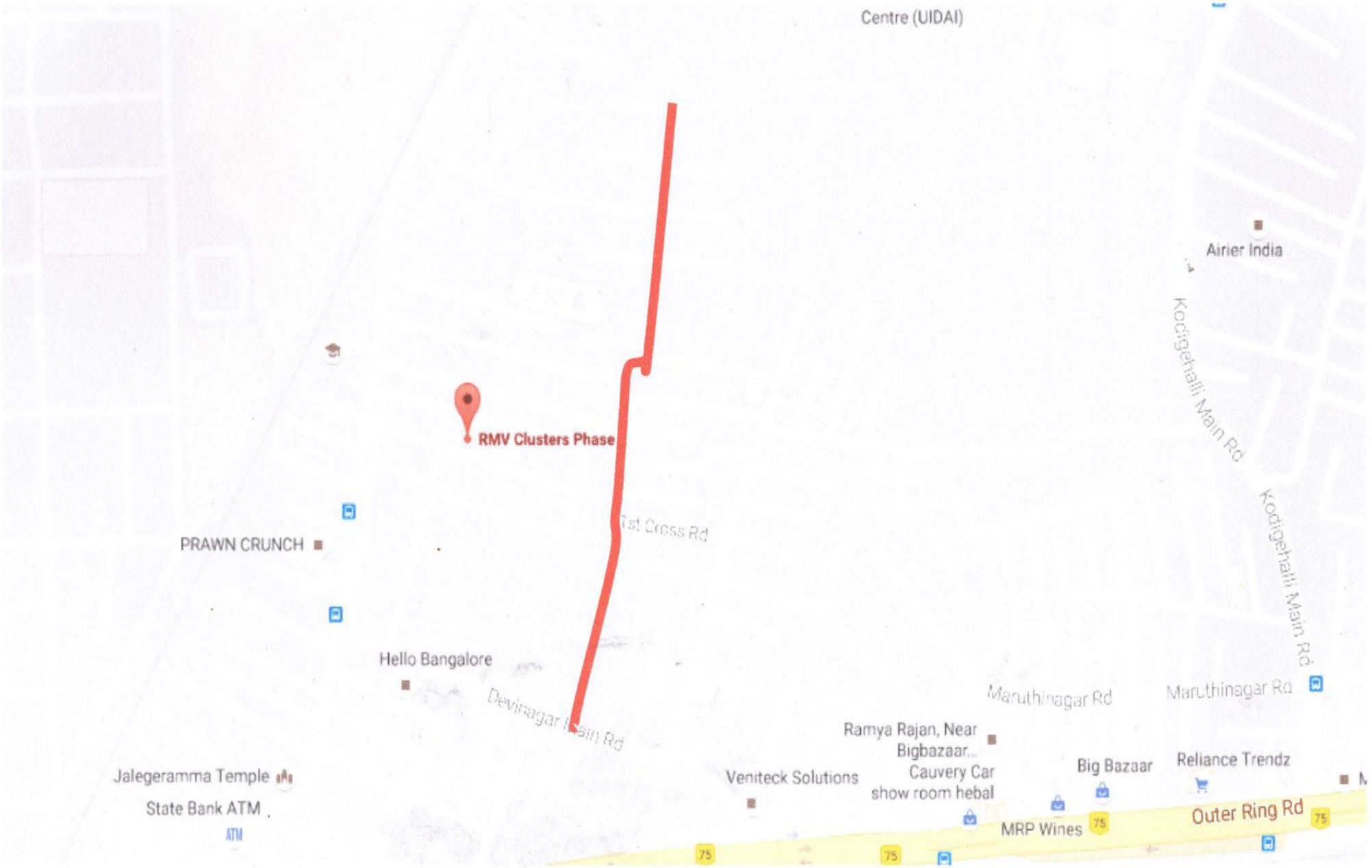


Detailed Project Report

October 2016

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
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KEY MAP – Kannuramma Main Road And Cross Roads



BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Road,Drain and Footpath in Kannuramma Main Road and abutting Cross Roads in Ward No.8, Kodigehalli

Est Cost: =75.0Lakh

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	BS Slab Drain	Sqm							
	Kannuramma main Road								
	for cover slab								
	Ch0-450LHS		1	30.00	1.20	--	36.00		
							36.00	80.56	**2900.16**
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	New Drain	Cum							
	Kannuramma main Road								
	Ch0-450LHS		1	423.00	1.10	1.10	511.83		
	Ch0-450 RHS		1	390.00	1.10	1.10	471.90		
	Culvert								
	Desilt		8	6.00	0.70	0.40	13.44		
	New Culverts								
	Ch145 RHS		1	6.00	1.60	1.30	12.48		
	Ch 132 LHS		1	5.50	1.60	1.30	11.44		
	Ch 250 RHS		1	5.80	1.60	1.30	12.06		
	Ch 275 RHS		1	6.20	1.60	1.30	12.90		
	Ch 365 RHS		1	6.20	1.60	1.30	12.90		
	Ch 400 RHS		1	6.00	1.60	1.30	12.48		
	Ch 430 RHS		1	6.20	1.60	1.30	12.90		
	Saucer Drain								
	Ch0-450LHS		1	410.40	0.45	0.15	27.70		
	Ch0-450 RHS		1	378.30	0.45	0.15	25.54		
	Catchpit at every 15m								
	LHS		27	0.45	0.45	0.70	3.83		
	RHS		25	0.45	0.45	0.70	3.54		
							1144.93	192.92	**220879.94**
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Kannuramma main Road								
	Ch0-450LHS		1	423.00	1.10	0.100	46.53		
	Ch0-450 RHS		1	390.00	1.10	0.100	42.90		
	New Culverts								
	Ch145 RHS		1	6.00	1.60	0.150	1.44		
	Ch 132 LHS		1	5.50	1.60	0.150	1.32		
	Ch 250 RHS		1	5.80	1.60	0.150	1.39		

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	Ch 275 RHS		1	6.20	1.60	0.150	1.49		
	Ch 365 RHS		1	6.20	1.60	0.150	1.49		
	Ch 400 RHS		1	6.00	1.60	0.150	1.44		
	Ch 430 RHS		1	6.20	1.60	0.150	1.49		
	Saucer Drain								
	Ch0-450LHS		1	410.40	0.45	0.050	9.23		
	Ch0-450 RHS		1	378.30	0.45	0.050	8.51		
	Catchpit at every 15m								
	LHS		27	0.45	0.45	0.100	0.55		
	RHS		25	0.45	0.45	0.100	0.51		
							118.28	5348.76	**632676.74**
4	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)								
	Bottom Slab	Sqm							
	New Culverts								
	Ch145 RHS		2.00	6.00	--	0.250	3.00		
	Ch 132 LHS		2.00	5.50	--	0.250	2.75		
	Ch 250 RHS		2.00	5.80	--	0.250	2.90		
	Ch 275 RHS		2.00	6.20	--	0.250	3.10		
	Ch 365 RHS		2.00	6.20	--	0.250	3.10		
	Ch 400 RHS		2.00	6.00	--	0.250	3.00		
	Ch 430 RHS		2.00	6.20	--	0.250	3.10		
							20.95	244.86	**5129.82**
5	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)								
	Side Walls	Sqm							
	New Culverts								
	Ch145 RHS		4.00	6.00	--	0.900	21.60		
	Ch 132 LHS		4.00	5.50	--	0.900	19.80		
	Ch 250 RHS		4.00	5.80	--	0.900	20.88		
	Ch 275 RHS		4.00	6.20	--	0.900	22.32		
	Ch 365 RHS		4.00	6.20	--	0.900	22.32		
	Ch 400 RHS		4.00	6.00	--	0.900	21.60		
	Ch 430 RHS		4.00	6.20	--	0.900	22.32		
							150.84	310.58	**46847.89**
6	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)								
	Drain	Cum							
	Bottom Slab								
	New Culverts								
	Ch145 RHS		1.00	6.00	1.40	0.25	2.10		
	Ch 132 LHS		1.00	5.50	1.40	0.25	1.93		
	Ch 250 RHS		1.00	5.80	1.40	0.25	2.03		
	Ch 275 RHS		1.00	6.20	1.40	0.25	2.17		

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	Ch 365 RHS		1.00	6.20	1.40	0.25	2.17		
	Ch 400 RHS		1.00	6.00	1.40	0.25	2.10		
	Ch 430 RHS		1.00	6.20	1.40	0.25	2.17		
	Side Walls								
	New Culverts								
	Ch145 RHS		2.00	6.00	0.25	0.90	2.70		
	Ch 132 LHS		2.00	5.50	0.25	0.90	2.48		
	Ch 250 RHS		2.00	5.80	0.25	0.90	2.61		
	Ch 275 RHS		2.00	6.20	0.25	0.90	2.79		
	Ch 365 RHS		2.00	6.20	0.25	0.90	2.79		
	Ch 400 RHS		2.00	6.00	0.25	0.90	2.70		
	Ch 430 RHS		2.00	6.20	0.25	0.90	2.79		
	Saucer Drain								
	Ch0-450LHS		1.00	410.40	0.45	0.10	18.47		
	Ch0-450 RHS		1.00	378.30	0.45	0.10	17.02		
							69.01	6231.74	**430061.73**
7	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)								
	Drain	Cum							
	Kannuramma main Road								
	Ch0-450LHS		1.00	423.00	0.90	0.15	57.11		
	Ch0-450 RHS		1.00	390.00	0.90	0.15	52.65		
	Catchpit at every 15m								
	LHS		27.00	0.45	0.45	0.15	0.82		
	RHS		25.00	0.45	0.45	0.15	0.76		
	Walls								
	Ch0-450LHS		2.00	423.00	0.15	0.75	95.18		
	Ch0-450 RHS		2.00	390.00	0.15	0.75	87.75		
	Catchpit at every 15m								
	LHS		81.00	0.45	0.15	0.45	2.46		
	RHS		75.00	0.45	0.15	0.45	2.28		
							299.00	11032.48	**3298689.46**
8	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)								
	Consider 50Kgs/cum for item No. 8 only RCC Drain Qty	Tonne		299.00	0.050	--	14.95		
	Consider 80Kgs/cum for item No. 7 only RCC Culvert Qty	Tonne		33.52	0.080	--	2.69		
							17.64	59413.00	**1048045.32**
13	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover Slab	Sqm							
	Ch0-450 LHS		1	370.00	0.90	--	333.00		
	Ch0-450 RHS		1	402.00	0.90	--	361.80		
							694.80	1698.00	**1179770.40**

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
12	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Culvert Slab	Sqm							
	New Culverts								
	Ch145 RHS		1.00	6.00	1.50	--	9.00		
	Ch 132 LHS		1.00	5.50	1.50	--	8.25		
	Ch 250 RHS		1.00	5.80	1.50	--	8.70		
	Ch 275 RHS		1.00	6.20	1.50	--	9.30		
	Ch 365 RHS		1.00	6.20	1.50	--	9.30		
	Ch 400 RHS		1.00	6.00	1.50	--	9.00		
	Ch 430 RHS		1.00	6.20	1.50	--	9.30		
							62.85	4764.00	**299417.40**
13	Providing and fixing M S Grating								
	Kannuramma main Road	Sqm							
	Catchpit at every 15m								
	LHS		27.00	0.45	0.45	--	5.47		
	RHS		25.00	0.45	0.45	--	5.06		
							10.53	6647.00	**69992.91**
14	KSRRB M2600-5.(iv) Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight complete as per specifications MORTH Specification No. 2605(P.No.243, I.No.31.5 of PW,P&IWTD S.R 2016-17)								
	Kannuramma main Road	Rmtr							
	Ch0-450LHS		1.00	410.40	--	--	410.40		
	Ch0-450 RHS		1.00	378.30	--	--	378.30		
							788.70	24.38	**19228.51**

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
15	Providing Raiwater harvesting pits for Drains(Sub estimate enclosed)								
	Kannuramma main Road	Sqm							
			2	3.00	--	--	6.00		
							6.00	21000.00	**126000.00**
							Total Construction Cost		**7379640.280**
16							**Cost towards Preparation of DPR LS**		**44278.00**
17							**Cost towards PMC / Third Party inspection LS**		**73797.00**
								Sub Total	**7497715.28**
18							**Miscellaneous and rounding off**		**2284.72**
								Total	**7500000.00**

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

For Tejus Consultants

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Technical Sanction
Accorded For 75.00 lakh Rs.
Head of A/C P3158
CER NO : 158 Dt: 04/03/17

TA to CE (YNK).

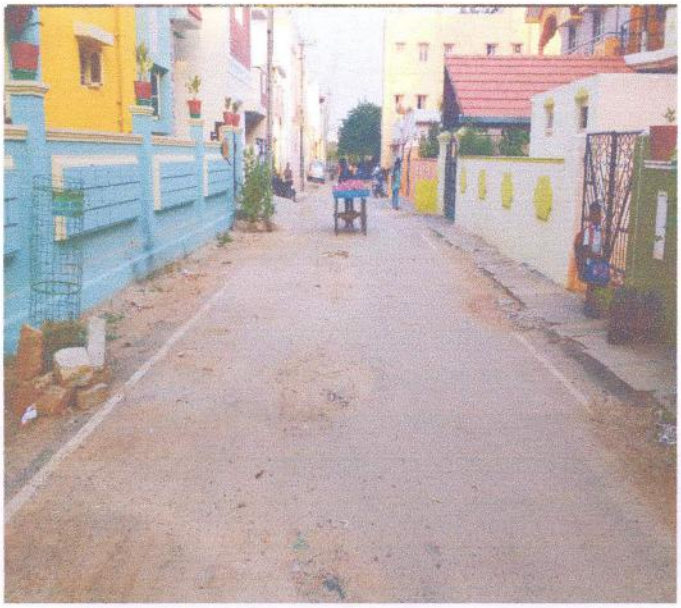
EXISTING VIEWS OF KANNURAMMA LAYOUT









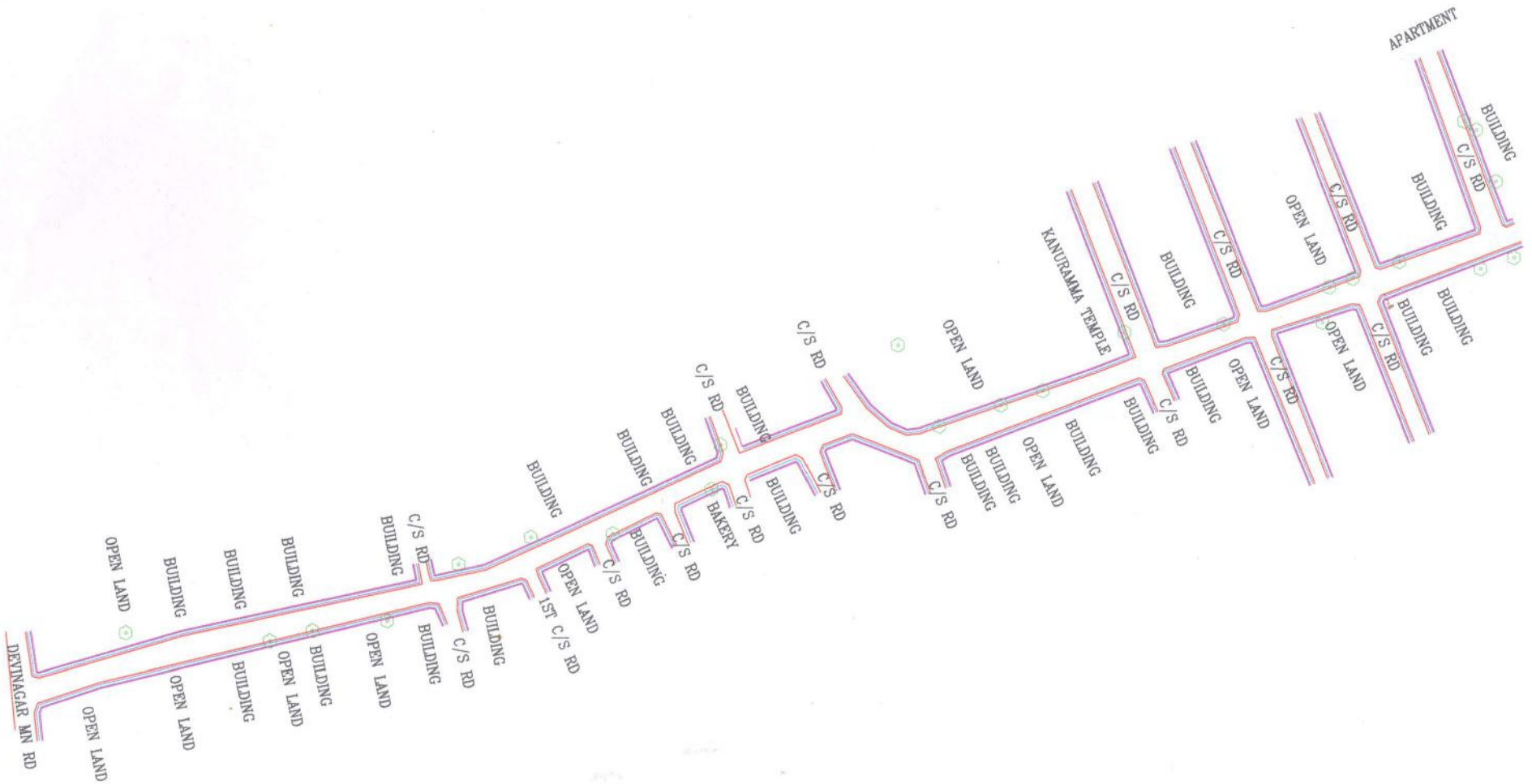




Assistant Executive Engineer,
Kodigehalli Sub Division.

BRUHAT BANGALORE MAHANAGARA PALIKE

IMPROVEMENTS TO ROAD,DRAIN AND FOOTPATH IN KANNURAMMA MAIN ROAD AND ABUTTING CROSS ROADS IN WARD NO.8, KODIGEHALLI



NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

- Road
- Drain
- Contour
- Levels
- Power line
- Telephone pole
- Street light
- Electric pole
- Tree
- Building
- Bore Well
- Drain level
- Compound wall
- Culvert
- Coconut Tree
- Road level

CONSULTANT :

TEJUS CONSULTANTS

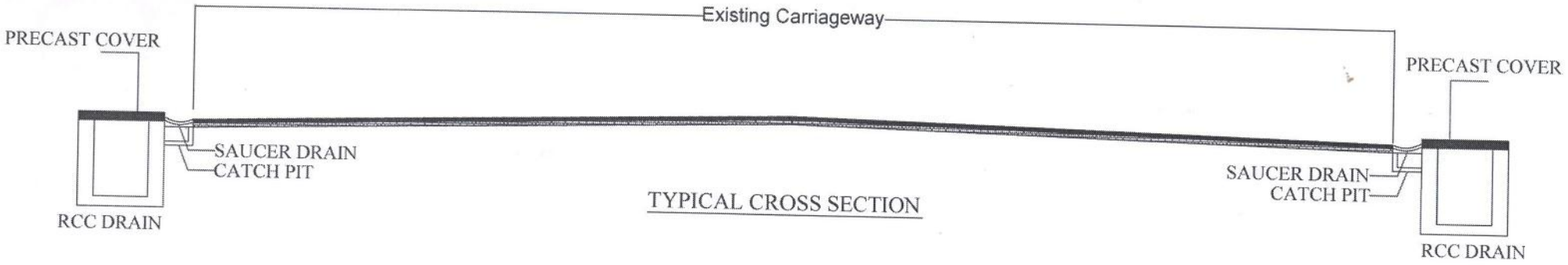
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1st Stage, Basaveshwaranagar
Bangalore-560079
TEL: 080 - 23287532
email: tejusconsultants@gmail.com

TITLE: STRIP PLAN

1/1

BRUHAT BANGALORE MAHANAGARA PALIKE

IMPROVEMENTS TO ROAD,DRAIN AND FOOTPATH IN KANNURAMMA MAIN ROAD AND ABUTTING CROSS ROADS IN WARD NO.8, KODIGEHALLI



TYPICAL CROSS SECTION

NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

CONSULTANT :

TEJUS CONSULTANTS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Baseveshwaranagar
Bangalore-560079
TEL: 080 - 23287532
email: tejusconsultants@gmail.com

TITLE:

TYPICAL CROSS SECTION